You are **strongly** encouraged to work in groups, following the procedure as in homework MS09.

Exercise pCA 3. Describe (in words or/and a picture) the sets whose points satisfy the following relations. Which of these sets are regions? By definition, a region is an open connected set; you can argue openness and connectedness intuitively (so no ε's needed).

ER 3.a. $|z+i| \leq 1$.

ER 3.b. $\left|\dfrac{z-1}{z+1}\right| = 1$.

ER 3.c. $|z-3| > |z-2|$.

ER 3.d. $\dfrac{1}{z} = \overline{z}$.